

In the Claims

Below is a list of current claims with status identifiers.

Claim 1: (Amended) A method of treatment of water in an aquatic environment, comprising the steps of:

pumping water from a reservoir to a first mixing station;

introducing an inert gas into the pumped water at the first mixing station to provide inert gas saturated water, which inert gas saturated water will displace undesired gasses in the water in the reservoir;

pumping the inert gas saturated water to a sparging column such that the inert gas and undesired gasses will be released from the inert gas saturated water to provide depleted water;

saturating the water with an inert gas to displace undesired gasses in the pumped water to provide depleted water.

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pumping the depleted water to a second mixing station;

introducing oxygen into the depleted water to provide oxygen enriched water, and returning the oxygen enriched water to the reservoir.

Claim 2: (Original) The method of Claim 1, wherein the inert gas is nitrogen.

Claim 3: (Original) The method of Claim 1, wherein the undesired gas is carbon dioxide.

Claim 4: (Original) The method of Claim 1 and further comprising the step of filtering the depleted water prior to introducing oxygen into the depleted water to remove particulates therefrom.

Claim 5: (New) The method of Claim 4, wherein the step of filtering further comprises the step of passing the depleted water through a HEPA filter.

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Claim 6: (New) The method of Claim 4, wherein the step of filtering further comprises the step of shining an ultraviolet light on the depleted water.

Claim 7. (New) The method of Claim 1, further including the step of passing the water through a filter between the reservoir and the first mixing station.

Claim 8: (New) The method of Claim 7, wherein the step of passing further comprises the step of passing the water through a screen filter.

Claim 9: (New) The method of Claim 1, wherein the step of saturating further comprises the step of diffusing the inert gas into the water to remove the undesired gases from the water.

Claim 10: (New) The method of Claim 1, wherein the step of saturating further comprises the step of mixing the inert gas into the water to remove the undesired gases from the water.

Claim 11: (New) The method of Claim 1, wherein the step of saturating further comprises the step of aerating the inert gas into the water to remove the undesired gases from the water.

Claim 12: (New) The method of Claim 1, further including the steps of:
pumping water from the reservoir to at least one of the first mixing station and the second mixing station;
injecting ozone into the water to sterilize the water, and
returning the sterilized water to the reservoir.

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Claim 13: (New) The method of Claim 12, wherein the step of injecting further includes the step of switching from the inert gas to the ozone at the first mixing station.

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Claim 14: (New) A system for treatment of water in an aquatic environment, comprising:
a first mixing station for introducing an inert gas into water from a reservoir to provide inert gas saturated water, which inert gas saturated water will displace undesired gasses in the water;
a sparging column for receiving inert gas saturated water and enabling the inert gas and undesired gasses to be released from the inert gas saturated water to provide depleted water; and
5 a second mixing station for oxygenating the depleted water to provide oxygen enriched water to be returned to the reservoir.

Claim 15: (New) The system of Claim 14, wherein the inert gas is nitrogen.

Claim 16: (New) The system of Claim 14, wherein the undesired gas is carbon dioxide.

Claim 17: (New) The system of Claim 14 further comprising a filter for filtering the depleted water prior to introducing oxygen into the depleted water to remove particulates therefrom.

Claim 18: (New) The system of Claim 17, wherein the filter comprises a HEPA filter.

Claim 19: (New) The system of Claim 17, wherein the filter comprises an ultraviolet light.

Claim 20: (New) The system of Claim 14, further including a second filter for filtering the water passing between the reservoir and the first mixing station.

Claim 21: (New) The system of Claim 20, wherein the second filter comprises a screen filter.

Claim 22: (New) The system of Claim 14, wherein the first mixing station comprise a diffuser for diffusing the inert gas into the water to remove the undesired gases from the water.

Claim 23: (New) The system of Claim 14, wherein the first mixing station comprise a mixer for mixing the inert gas into the water to remove the undesired gases from the water.

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Claim 24: (New) The system of Claim 14, wherein the first mixing station comprise a aerator for aerating the inert gas into the water to remove the undesired gases from the water.

Claim 25: (New) The system Claim 14, further including a switch for selecting between the inert gas and ozone in the first mixing station.

Claim 26: (New) The system of Claim 25, wherein the first mixing station injects ozone into the water to sterilize the water when the ozone is selected by the switch.

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